

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.  
0152.00427

In Re Application Of: George R. Newkome

DEC 12 2002

Serial No.

Filing Date

Examiner

Group Art Unit

1625

04/23/02

1625

Title: **PERFORMANCE OF ENERGY STORAGE DEVICES: POTENTIAL AREAS FOR DENDRITIC CHEMISTRY INVOLVEMENT**

Address to:

Assistant Commissioner for Patents  
Washington, D.C. 20231

**37 CFR 1.97(b)**

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

**37 CFR 1.97(c)**

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☐ the statement specified in 37 CFR 1.97(e);

**OR**

☐ the fee set forth in 37 CFR 1.17(p).

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.  
0152.00427

In Re Application: George R. Newkome

DEC 12 2002

Serial No.

Filing Date

Examiner

Group Art Unit

100/19259

04/23/02

1625

**PERFORMANCE OF ENERGY STORAGE DEVICES: POTENTIAL AREAS FOR DENDRITIC INVOLVEMENT**

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(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

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Dated: 12/9/02

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## MANUAL OF PATENT EXAMINING PROCEDURE

PTO/SB/08 (2-92)  
Sheet 1 of 2

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION  (Use several sheets if necessary)	Docket Number (Optional) 0152.00427	Application Number 10/049,259
	Applicant George R. Newkome	
	Filing Date 04/23/02	Group Art Unit 1625

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,154,853	1992	Newkome			
	5,886,126	1999	Newkome			
	5,886,127	1999	Newkome			
	5,773,551	1998	Newkome			

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## FOREIGN PATENT DOCUMENTS

	DOCKET NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date Pertinent Pages, Etc.)

	Buckman, A.F., et al., "Functionalization of Poly(ethylene glycol) and Monomethoxy-Poly(ethylene glycol)," <i>Makromol. Chem.</i> , 182, 1379-1384 (1981).
	Burns, C.J., et al., "A convenient synthetic route to differentially functionalized long chain polyethylene glycols," <i>Synth. Commun.</i> , 29 (13), 2337-2347 (1999).
	Cisak, et al., "L, "High-energy Non-aqueous Batteries"; <i>Horwood</i> (1993).
	Dominguez, X.A., et al., "Simple Preparation of a Very Active Raney Nickel Catalyst," <i>J. Org. Chem.</i> , 26(5), 1625 (1961).
	Hult, A. et al., "Hyperbranched Polymers," <i>Advances in Polymer Science: Branched Polymers</i> , Chapter 1, 2-34 (1999).
	Issberner, J., et al., "Dendritic Bipyridine Ligands and Their Tris(Bipyridine)ruthenium(II) Chelates-Syntheses, Absorption Spectra, and Photophysical Properties," <i>Chem. Eur. J.</i> , 3(5), 706-712 (1997).
	Lipkowski, J., "Electrochemistry of Novel Materials, Chapters 2 and 3 (1994).
	McMurry, J., "Ester Cleavages Via S <sub>N</sub> 2-Type Dealkylation," <i>Organic Reactions</i> , Chap. 2, 187-224 (1976).
	Narayanan, V.V., et al., "Novel Dendrimers Possessing Internal Electroactive Quinoid Moieties," <i>Polym. Prep.</i> , 37(2), 419-420 (1996).
	Newkome et al., "Dendrimers and Dendrons Concepts, Synthesis, Applications; VCH Weinheim, Germany, 2001.
	Newkome, G.R. et al., "Synthesis of 1 → 3 Branched Isocyanate Monomers for Dendritic Construction," <i>Designed Monomers and Polymers</i> , 1(1) 3-14 (1997).
	Newkome, G.R., "Nanometric dendritic macromolecules: stepwise assembly by double (2,2':6'.2"-terpyridine)ruthenium(II) connectivity," <i>J. Mater. Chem.</i> , 7(7), 1237-1244 (1997).
	Newkome, G.R., et al., "Isocyanate-Based Dendritic Building Blocks: Combinatorial Tier Construction and Macromolecular Property Modification: <i>Angew. Chem.</i> , 37, 307-310 (1998).
	Newkome, G.R., et al., "Synthesis and Chemistry of Novel Dendritic Macromolecules Possessing Internal Electroactive Anthraquinonoid Moieties," <i>Macromolecules</i> , 30(17), 5187-5191 (1997).
	Newkome, G.R., et al., "A Tailored Approach to the Synthesis of Electroactive Dendrimers Based on Diaminoanthraquinones," <i>Macromolecules</i> 1999, 32, 6782-6791.
	Newkome, G.R., et al., "A useful dendritic building block: di-tert-butyl 4-[2-tert-butoxycarbonyl)ethyl]-4-isocyanato-1,7-heptanedicarboxylate," <i>Tetrahedron Lett.</i> 38(40), 7053-7056 (1997).
	Newkome, G.R., et al., "Alkane Cascade Polymers Possessing Micellar Topology: Micellanoic Acid Derivatives," <i>Chem. Int. Ed. Engl.</i> , 30(9), 1176-1178 (1991).
	Newkome, G.R., et al., "Anthraquinoid-based Extended Dendritic Monomers: Electrochemical Comparisons," <i>Designed Monomers and Polymers</i> 2000, 3, 1, 17-26.
	Newkome, G.R., et al., "Cascade Molecules. 15. Synthesis of Tris(3-substituted) Tripropylnitromethanes," <i>Synthesis</i> , (10), 839-841 (1991).

	Newkome, G.R., et al., "Dendrimer Construction and Macromolecular Property Modification via Combinatorial Methods," <i>Biotech. and Bioeng. (Combinatorial Chemistry)</i> , 1999, 61(4), 243-253.
	Newkome, G.R., et al., "Electroactive Metallomacromolecules via Tetrakis(2,2':6'm2"-Terpyridine)ruthenium(II) Complexes: Dendritic Networks towards Constitutional Isomers and Neutral Species without External Counterions," <i>J. Am. Chem. Soc.</i> 2000, 122, 9993-10006.
	Newkome, G.R., et al., "Neutral highly branched metallomacromolecules: Incorporation of (2,2':6'.2"-terpyridine)ruthenium(II) complex without external counterions," <i>Chem. Commun.</i> , 27-28 (1999).
	Newkome, G.R., et al., "Synthesis of Amine Building Blocks for Dendritic Macromolecule Construction," <i>Synlett</i> , (1), 53-54 (1992).
	Newkome, G.R., et al., "Synthesis of Unsymmetrical 5,5'-Disubstituted 2,2'-Bipyridines," <i>J. Org. Chem.</i> , 62(9), 3013-3014 (1997).
	Newkome, G.R., et al., "Unimolecular micelles," <i>Angew. Chem. Int. Ed. Engl.</i> , 30(9), 1178-1180 (1991).
	Owen, J.R., "Rechargeable lithium batteries," <i>Chem. Soc. Rev.</i> , 26, 259-267 (1997).
	Roovers, J., et al., "Dendrimers and Dendrimer-Polymer Hybrids," <i>Advanced in Polymer Science: Branched Polymers</i> , 180-228 (1999).
	Salomon, M., "Solubility problems relating to lithium battery electrolytes," <i>Pure Appl. Chem.</i> , 70(10), 1905-1912 (1998).
	Tor, Y., et al., "Biomimetic Ferric Ion Carriers. A Chiral Analogue of Enterobactin," <i>J. Am. Chem. Soc.</i> , 1987, 109, 21, 6517-6518.
	Weis, C.D., et al., "Reduction of Nitro Substituted Tertiary Alkanes," <i>Synthesis</i> , (9), 1053-1065 (1995).
	Young, J.K., et al., "Smart" Cascade Polymers, Modular Synthesis of Four-Directional Dendritic Macromolecules with Acidic, Neutral, or Basic Terminal Groups and the Effect of pH Changes on Their Hydrodynamic Radii," <i>Macromolecules</i> , 27(13), 3464-3471 (1994).
	Zhang, J., et al., "Geometrically-controlled and site-specifically-functionalized phenylacetylene macrocycles," <i>J. Am. Chem. Soc.</i> , 116(10), 4227-4239 (1994).
	Zhang, J., et al., "Nanoarchitectures. 1. Controlled synthesis of phenylacetylene sequences," <i>J. Am. Chem. Soc.</i> , 114(6), 2273-2274 (1992).
EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

PTO/SB/ 08 (2-92)  
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